

-1-

*System 1*SYSTEM VII SPARE PARTS REQUIREMENTS

	Quantity	
	Field	Depot

## A. Ampex Recorder Spares

1. Major Ampex 814 recorder components, consisting of the following:

1 each - Tape transport assembly, Ampex catalogue number 11004-04

1 each - Capstan power supply, Ampex catalogue number 11103

1 each - Record amplifier power supply, Ampex catalogue number 11093-1

1 set

## 2. Capacitors

.18 MF - 200 VDCW, paper, sprague # 96P1849259, Ampex No 035-002

1

2

2.0 MF, 600 VDCW, oil filled, sangamo part #62A06-2, Ampex No 036-009

2

4

8 MF, 30 VDC, Tantalum, fansteel #PP8B30A2 Ampex #037-006

2

2

40 MF, 30 VDC, Tantalum, fansteel #PP40B30A2 Ampex #037-012

2

2

8 MF, 150 VDC, Tantalum, C-D #Tan 12, Ampex 037-007

2

4

20 MF, 10 VDC, fansteel #PP20BA1, Ampex #037-010

1

2

1.75 MF, 125 VDC, fansteel #PFL75B125C2, Ampex #037-003

1

2

Special Pack Capacitor, 12 terminal, Ampex #11309

2

3

10 MF, 400 VDC, Special, Ampex #11358

2

3

25 YEAR RE-REVIEW

-2-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
9 MF, 125 VDC, Pansteel #PP9R125, Ampex #037-008	1	2
10 MF (5%), 500 VDCW, Mica, Arco Part CM 15 C 100 J, Ampex #034-094	2	2
50-250 MF, Variable, Ceramic, Centralab #3DA626015, Ampex #030-007	1	2
300 MF (5%), 500 VDCW, Silver Mica, Arco Part #CM15E39LJ, Ampex #034-056	2	2
510 MF, 200 VDCW, Ceramic, Centralab #STU 355LLJ-U2J, Ampex #030-010	1	2
.001 MF, 500 VDCW, Mica, Sangamo #K-1210 Ampex #034,017	2	2
.001 MF (5%), 500 VDCW, Silver Mica, El Menco #C420EL02J, Ampex #034-066	1	2
.0015 MF (5%), 500 VDCW, Silver Mica, El Menco #C420EL52J, Ampex #034-103	1	2
.002 MF (5%), 500 VDCW, Silver Mica, El Menco #CM30EL102J, Ampex #034-022	1	2
.0027 MF, 400 VDCW, Paper, Sprague 96P27292S2, Ampex 035-071	2	2
.0062 MF (5%), 500 VDCW, Silver Mica, El Menco #CM40E562, Ampex #034-025	1	2
.01 MF (1%), 500 VDCW, Silver Mica, El Menco #CM 35-F-103F, Ampex #034-104	2	2
.01 MF (5%), 300 VDCW, Silver Mica, El Menco #CM40EL03, Ampex #034-026	1	2
.012 MF (5%), 300 VDCW, Silver Mica, El Menco #40EL123, Ampex #034-091	1	2
.22 MF, 200 VDCW, Sprague (Vitamin Q) #96P2249S4, Ampex #035-013	1	2

-3-

	Quantity	
	Field	Depot
.1 MF, 400 VDCW, Sprague (Vitamin Q) #96P10404S2, Ampex #035-071	3	6
.22 MF, 400 VDCW, Sprague (Vitamin Q) #A6P22404S4, Ampex #035-085	3	6
.22 MF 400 VDCW, Sprague 96P22304S2, Ampex #035-048	1	2
.1 MF 300 VDCW, Sprague 96P1059389, Ampex #035-095	2	2
2.5 MF, Special Motor Capacitor, Ampex #036-008	1	1
4.0 MF, 150 VDCW, Special, Ampex #031-057	2	2
.0056 MF (5%), 500 VDCW, El Menco part #CM-08662 (Electric Power Supply)	2	4
3. Resistors		
10 Ohms, 10%, 1 watt MIL-R-11A, RC32GF100K Ampex #041-137	2	2
5 Ohms, 25 watts (Part of Tape transport) Ampex #043-041	1	2
7 1/2 Ohms, 25 watts (Part of Tape Transport) Ampex #043-079	2	4
7 1/2 Ohms, 25 watts (Part of Tape Transport) Ampex #11678-1	1	2
10 Ohms, $\pm 1\%$ , 1/2 watt, Electra Type DC-1 Ampex #042-073	2	3
15 Ohms, $\pm 5\%$ , 10 watts, Dalohn #RS-10, Ampex #043-141	2	2
50 Ohms, $\pm 5\%$ , 10 watts, Dalohn #RS-10, Ampex #043-142	2	2

-4-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
75 Ohms, $\pm 5\%$ , 10 watts, Dalohn #RS-10 Ampex #043-140	2	2
100 Ohms, $\pm 10\%$ , 1 watt, MIL-R-11A: RC32GF10LK, Ampex #041-137	2	3
15 Ohms, 50 watts, special for Tape Transport, Ampex #043-272	2	2
500 Ohms variable, $\pm 20\%$ , $\frac{1}{2}$ watt, Chicago Tel. Supply Part #65(TPRD), Ampex #044-071	1	1
680 Ohms $\pm 1\%$ , $\frac{1}{2}$ watt, Film, Electra Type DC $\frac{1}{2}$ , Ampex #042-074	2	2
680 Ohms, $\pm 10\%$ , 2 watts, MIL-R-11A: RC42GF68LK, Ampex #041-188		
750 Ohms, $\pm 10\%$ , 10 watts, Dalohn #CS-10, Ampex #043-147	2	2
1500 Ohms, $\pm 1\%$ , $\frac{1}{2}$ watt, Film, Electra Type DC $\frac{1}{2}$ , Ampex #042-076	3	4
1500 Ohms, $\pm 10\%$ , 1 watt, MIL-R-11A: RC32GF152K, Ampex #041-148	2	2
5000 Ohms, $\pm 5\%$ , 10 watts, Dalohn #RS-10 Ampex #043-143	2	3
5000 Ohms, $\pm 5\%$ , 5 watts, Dalohn #RS-5, Ampex #043-178	2	3
5000 Ohms, $\pm 10\%$ , variable, Wirewound, 25 watts, Linear Taper, TRU-QEM: XR-1456 Ampex #044-056	1	1
10 K Ohms, $\pm 20\%$ , $\frac{1}{2}$ watt, Variable, Audio Taper, Chicago Tel. Supply Part # 65(TPR-A), Ampex #044-077	1	1
15 K Ohms, $\pm 1\%$ , (F.U.W. Tape Transport) Ampex #042-042	1	2

-5-

	Quantity	
	Field	Depot
15 K Ohms, $\pm 10\%$ , 1 watt, MIL-R-11A: RC32GF153K, Ampex #041-160	2	2
22 K Ohms, $\pm 1\%$ , $\frac{1}{2}$ watt, Non-Inductive, Wirewound, CINEMA Part #SW-1AE, Ampex #043-201	1	2
20 K Ohms, $\pm 20\%$ , $\frac{1}{2}$ watt, Variable, Wire- wound, Linear Taper, CRL:MOD 3(TPR-C1), Ampex #044-036	1	2
33 K Ohms, $\pm 10\%$ , 2 watts, MIL-R-11A: RC42GF333K, Ampex #041-218	2	2
32 K Ohms, $\pm 10\%$ , 10 watts, Wirewound, Dalohm Part #RS-10, Ampex #043-145	2	2
47 K Ohms, $\pm 10\%$ , 2 watts, MIL-R-11A: RC42GF473K, Ampex #041-220	2	2
51 K Ohms, $\pm 5\%$ , 1 watt, MIL-R-11A: RC32GF513J, Ampex #041-116	2	2
62 K Ohms, $1\%$ , $\frac{1}{2}$ watt, Fixed, Film, Electra Type DC- $\frac{1}{2}$ , Ampex #042-087	2	2
110 K Ohms, $\pm 1\%$ , $\frac{1}{2}$ watt, Fixed, Film, Electra Type DC- $\frac{1}{2}$ , Ampex #042-093	1	2
100 K Ohms, $\pm 10\%$ , 2 watts, MIL-R-11A: RC42GF104K, Ampex #041-224	3	3
100 K Ohms, Variable, Wirewound, Audio Taper, Chicago Tel Supply Part #65 (TPRA), Ampex No. 044-079	2	2
220 K Ohms, $\pm 5\%$ , 2 watts, MIL-R-11A: RC42GF224J, Ampex #041-237	2	2
220 K Ohms, $\pm 5\%$ , 1 watt, MIL-R-11A: RC42GF224J, Ampex #041-121	2	2
250 K Ohms, $\pm 1\%$ , $\frac{1}{2}$ watt, Wirewound, Non- inductive, Cinema Eng Part #SW-1AE, Ampex #043-198	2	2

-6-

	Quantity	
	Field	Depot
470 K Ohms, $\pm 10\%$ , 1 watt, MIL-R-11A: RC20GF474K, Ampex #041-080	2	2
820 K Ohms, $\pm 10\%$ , 2 watts, MIL-R-11A: RC42GF154J, Ampex #041-230	2	2
5000 Ohms, Potentiometer, (F.U.W. Tape Transport), Ampex #044-073	1	1
4. Miscellaneous Ampex 814 Recorder Components		
Transformer and filter choke pack, circuit symbol T501/L501, Ampex 11299	1	1
Transformer, Audio Driver, Circuit symbol T-401, Ampex 11300	1	1
Transformer, Audio Output, Circuit symbol T-402, Ampex #11301	1	1
Transformer, Power, Circuit symbol T-701 Ampex #11302	1	1
Transformer, Heater Regulator, Circuit symbol T-702, Ampex #11303	1	1
Filter Choke, Circuit symbol, L-701, Ampex #11304	1	1
Inductor, 113 microhenry, $\pm 5\%$ , Ampex #11308	1	1
Choke, 100 Microhenry, $\pm 10\%$ , 30 MA.D.C., Ampex #11306	1	1
Inductor, Variable, 25 Microhenry, $\pm 5\%$ 300 MA.D.C., Ampex #11307	1	1
Inductor, Harmonic Filter, 5.2 Microhenry, $\pm 5\%$ , 2.5 Amp D.C., Ampex #11305	1	1
Connector, receptacle, 16 Contacts, Male, Chassis mounted, Amphenol part 26- 159-16, Ampex #147-021	2	2
Connector, receptacle, 16 Contacts, Female Chassis mounted, Amphenol part 26- 190-16, Ampex #146-023	2	2

**SECRET**

-7-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
Relay, 4P2T, 12/28 VDC, Hart part R115C-32-1C, Ampex part #020-022	1	2
Relay, SPDT, 28 VDC, Advance part 03738-1 Ampex part #020-021	2	2
Relay, Delay, DPDT, Ampex part #020-026	1	1
Safety switch and Palentimeter Assembly, Ampex #11592-1	1	1
Actuator, Motor Shutoff Switch, Ampex #11478-1	1	1
Rotary Solenoid Assembly, Ampex #11146-1	1	1
Switch, Toggle, SPST, Ampex part #120-005	1	1
Switch, Thermo Control, Ampex #120-035	1	1
Switch, Rotary, SPST, CENTRALAB part PA 110-001, Ampex #122-020	2	2
Motor, Blower, American part #168A, Ampex #592-013	3	4
Motor, Blower, Sanders Associates, Minicube Model 1, Ampex part #592-016	2	2
Motor, Tape indicator, Ampex #11335	1	1
Rectifier, Selenium, Half wave, Double stack, 2 each 23.5 V plates per leg, 230 MA D.C., Ampex part #11453	2	2
Fuse, Cartridge, 5 amp, 32 V, Type 3AG, Little Fuse part #311005, Ampex #070-013	20	20
Grommet, Neoprene, Walsco part 3344-99, Ampex #260-017	4	4

**SECRET**

-8-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
Grommet, Neoprene, Rubbercraft part #37, Ampex #260-010	4	4
Grommet, Neoprene, Rubbercraft part #85, Ampex #260-006	4	4
Seal, Neoprene, 11 3/16" long, 5 holes, Ampex #11501-1	1	2
Drive Belt, Nylon, 12" half length, Ampex #2371-18	1	1
Drive Belt, Nylon, 12 3/8" half length, Ampex #2371-16	1	1
Drive Belt, Nylon, 12 1/2" half length, Ampex #2371-22	1	1
Drive Belt, Nylon, 12 11/16" half length, Ampex 2371-10	1	1
Reel Hold Down Assembly for 1" Tape, Ampex #11243-01	1	1
Brake Band Assembly, Ampex #11795-1	1	2
Seal, Neoprene, 11 3/16" long, 4 slots, Ampex #11621-1	1	1
Reel Drive Pin, Ampex #19483-1	1	2
Brake Band Assembly, Ampex #11223-1	1	2
Potentiometer, 20K, Ampex #11670-1	1	1

## B. H.R.B. Electronics Spares

## 1. Capacitors

.5 - 8.5 MUF, Variable, JFENC9G (Preamp Multicoupler)	2	5
15 MUF C.D. Disc #Type CM470 (For VFU)	2	4

SECRET



-9-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
20 MMF, 600 V, Erie GP, Preamp Multi-coupler	1	2
47 MMF, 10%, Allen Bradley, Button Type, (for VPU)	2	4
47 MMF, 5%, CD, Button Type, (for VPU), HRB	2	4
68 MMF, 10%, Allen Bradley, Button Type, (for VPU)	2	4
68 MMF, 5%, CD, Disc. #type CM470 .593 dia (VPU)	2	4
100 MMF, Allen Bradley Disc #L36AGD1012YE (VPU)	2	5
220 MMF, Allen Bradley Disc #L36AGD2212YT (for VPU)	2	5
270 MMF, Allen Bradley, Fixed, Ceramic, Button Type, 10%, (for VPU) HRB	2	4
470 MMF, Allen Bradley Disc, 10%, #L36AS D4711YF (for VPU)	2	5
500 MMF, Fixed, Feed Through (Preamp Multi-coupler) HRB	2	6
600 MMF, C.D. Disc #Type JA .390 Dia (for VPU)	2	5
.001 MF, 10%, Allen Bradley Disc #L36AGD102P4T (for VPU)	2	5
470 MMF, Allen Bradley Disc, #L36ASD4711YF	2	5
470 MMF, Allen Bradley, Fixed, Stand Off ABSOS, Preamp Multicoupler	2	5
500 MMF, 500V, Micon	3	6
.0015 MF, 10%, Allen Bradley, Button Type, (for VPU) HRB	2	4

-10-

	Quantity	
	Field	Depot
.0022 MF, 10%, Allen Bradley, Button Type, (for VPU) HNB	2	4
.0027 MF, 10%, Allen Bradley, Button Type, (for VPU) HNB	2	4
.0047 MF, 10%, Allen Bradley, Button Type, (for VPU) HNB	2	4
.01 MF, 10%, Allen Bradley, Button Type (for VPU) HNB	2	4
.01 MF, Erie Disc Caps #150D103 X 9035A1	3	6
.022 MF, Electrolytic, 35 VDC, 2, 12/32" X 5/32" (for VPU) HNB	2	4
.018 MF, Electrolytic, 35 VDC, 2, 12/32" X 5/32" (for VPU) HNB	2	4
.047 MF, Electrolytic, 35 V DC, 2, 12/32" X 5/32" (for VPU) HNB	2	4
1.0 MF, 35 VDC, Electrolytic, 12/32" X 5/32" (for VPU) HNB	6	12
1.0 MF, Sprague Type 150 D #150D105 X 9035A1	6	12
.047 MF Sprague Type 150 D #150D473 X 9035A1	3	6
1.5 MF, 25 VDC, GE, 29F56504 (for VPU)	2	4
1.0 MF, 600 VDC @ 100 Deg C, 900 VDCT, Aerolite, Aeronox, P30ZN, Preamp Multicoupler, HNB	1	2
1.0 MF, Electrolytic, 600 VDC, TLA6040J, CD, NEB, Power Supply	2	4
40 MF, 450 VDC, 40 MF, 450 VDC, Sprague PE2764, Power Supply	2	4

SECRET

-11-

	Quantity	
	Field	Depot
50 MF, 50 VDC, Mallory #B5-39-50MFD	3	5
8 MF, 600 VDC, 2 Areconox Type P30ZN 4.0 MF in parallel	3	5
80.0 MF, Can Electrolytic, HRE	2	5
.1 MF, Sprague Type 150 D #150D104 X 9035A1	1	4
.02 MF Erie Disc Caps	3	6
.056 MF Erie Disc Caps 150D563 X 9035A1	1	4
.033 MF Erie Disc Caps 150D333 X 9035A1	2	5
.022 MF Erie Disc Caps 150D223 X 9035A1	1	4
.0033 MF Allen Bradley Disc L36ASD3321YF	2	6
.025 MF C.D. Tiny Chief 400 V	1	4
160 MF C.D. Disc # Type JA .390 dia	1	4
200 MF C.D. Disc #Type JA .390 dia	2	5
300 MF C.D. Disc #Type JA .390 dia	1	4
600 MF C.D. Disc #Type JA .390 dia	2	5
2. Resistors		
30 Ohms, 10 watts, Wirewound (part of control box)	3	6
40 Ohms, 10 watts, $\pm 5\%$ , Preamp Multi- coupler		3
50 Ohms, 25 watts, IRC 810, Type 2 $\frac{1}{2}$ DA Preamp Multicoupler	1	4
75 Ohms, 5 watts (part of control box)	2	4
180 Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	4

-12-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
220 Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
300 Ohms, 10 watts, Adj. wirewound	1	3
330 Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU		5
560 Ohms $\frac{1}{2}$ watt, $\pm 5\%$ , VPU		5
680 Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	4
1 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
1.2 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
1.5 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	4
1.8 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
2.2 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
2.7 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
3 K Ohms, 50 watts, 1 BC, Power Supply	1	2
3.3 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
3.9 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
4.7 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
5 K Ohms, Triapot, (BOURNS)	1	3
5.6 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
6.8 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	4
8.2 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
10 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
10 K Ohms, Triapot (BOURNS)	1	3
12 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
18 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
22 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10

-13-

	Quantity	
	Field	Depot
27 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
33 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
39 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	5	10
47 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
56 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
68 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
100 K Ohms, $\frac{1}{2}$ watt, $\pm 5\%$ , VPU	2	5
5 K Ohms, POT, $\pm 10\%$ , Omate Type AS 3606 U-5000 Ohms (I.P. Strip)	2	4
25 Ohms, $\frac{1}{2}$ watt	1	3
75 Ohms, IOW, Wirewound	3	6
500 Ohms, POT, Allen Bradley	1	2
5 K Ohms, POT, Allen Bradley	1	2
3. Miscellaneous		
Transformer, 115 V, 400 cycles primary, 6.3 V. secondary, Ballastan Corp., BC2101, 651805-006, TF2B01YY, Power Supply, HRS source	1	1
Filament Transformer, 115V, 400 cycles primary, 6.3 V, 12 amp, Ballastan Corp. BC2102-651800-040, TF 2B01YY HRS	1	2
Transformer, SC651805-006, Wheeler W9379, (APR13), HRS	1	2
Transformer, SC 651800-040, Wheeler W-9694 (APR-13), HRS	1	2
Transformer, 117V/400H primary, 165V, 750 MA secondary, Crest (Special) #464P- 724, 839906, HRS	1	2

-14-

	Quantity	
	Field	Depot
Transformer, 117V/400H, 225V, 225 MA secondary, Crest (Special) #464PF-726, 839906, HRB	1	2
Choke, 3HY, 750MA, Crest (Special) #464CF-223, 839905, HRB	1	2
Choke, 3HY, 250MA, Crest (Special) #464CF-222, 839905	1	2
Filament Transformer, 6.3V, 5A secondary, 115V, 400H primary, Tread #H5433, HRB	1	2
Transformer, 115V/400H primary, 195V/400H secondary, Precap Multicoupler, HRB	1	1
Relay, Sigma, 22AJC-1000G-SIL	1	3
Relay, P & B, #817DM	1	3
Power Supply, 3V Output, 117V/400H Input, Arnoux 3505-01	1	1
Crystal, 23.30000 MC 11/16" X 3/4" X 5/16"	2	2
Fuse, 20A, 4AG, Littlefuse #411020	5	10
Fuse, 3A, 4AG, Littlefuse #413003	5	10
Fuse, 1A, 4AG, Littlefuse #413001	10	20
Fuse, 1/2A, 4AG, Littlefuse #413.500	10	20
Fuse, 4A, 4AG, Littlefuse, #413004	5	10
Switches, Cutler Hammer TPDT #CH3226-1 6742X9	1	2
Switches, Cutler Hammer DPDT with center off #8821K5	1	2
Pad (Alternator) 10DB, ARL, HRB	2	2
<b>C. Tubes, Semiconductors, and Transistors</b>		
Diode, 1N211	4	4

-15-

	Quantity	
	Field	Depot
Diode, (For April 13), 4JB2D4	3	3
Diode, IN540, Texas Inst.	4	4
Diode, IN443, GE	4	4
Diode, IN60-CBS, or 07D-976	12	12
Diode, IN629, Hughes	6	6
Transistor, 2N43, GE	12	12
Transistor, 2N94, Sylvania	6	6
Transistor, SB100, Philco	12	12
Transistor, 2N491, GE or 2N489	3	3
Transistor, 2N499	3	3
Transistor, 2N35, Sylvania	3	3
Electron Tube, 5N4GY	4	4
Electron Tube, 5001	4	4
Electron Tube, 6080	4	4
Electron Tube, 6AU6	4	4
Electron Tube, 5651	2	2
Electron Tube, 0A3/VR75	2	2
Electron Tube, 0B2W/6074	2	2
Electron Tube, 5687	4	4
Electron Tube, 12AX7	4	4
Electron Tube, 12AU7	4	4
Electron Tube, 5654	12	12

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-16-

	<u>Quantity</u>	
	<u>Field</u>	<u>Depot</u>
Electron Tube, 5670	6	6
Electron Tube, 5718	6	6
Electron Tube 5726	3	3
Electron Tube, 6AH6	6	6
Electron Tube, 5042	3	3
Electron Tube, 5047	4	4
Electron Tube, 6BH6	3	3
Electron Tube, 12AN6	2	4
Electron Tube, 12AO5	2	4

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